TEXASGULF INC.

DRILL HOLE LOG

HOLE NO.	PAGE NO.
BM-1-81	1

PROPERTY: BALDWIN McVICAR
LOCATION: SQUAMISH AREA
Lat: 49°40' Long: 123°03'
AZIM: N85E ELEV: 1411 m
DIP: -45° LENGTH: 559.6
CORE SIZE: BQ
STARTED: Oct. 2, 1981
COMPLETED: Oct. 15, 1981
PURPOSE: To test the extension of several massive sulphide zones & associated silicification at depth
CORE RECOVERY: very good

DIP TEST

FOOTAGE	Azimuth	Dip	FOOTAGE	READING	CORRECT
98.4m	107°	-45°			
229.6m	95°	-32°			
328.1m	107°	-12°			

CLAIM NO: WHISTLER
SECTION: A - A'
LOGGED BY: P.DeLancey, G.Cooper, D.Piroshco
DATE LOGGED: Oct.3 - Oct.15, 1981
DRILLING CO: Longyear Canada Ltd.
ASSAYED BY: Bondar Clegg

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH. GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		OVERBURDEN to 5.2m						
1								
2								
3								
4								
5		Box 1 5.2 - 13.6 m						
broken ground near surface		DACITE CRYSTAL LITHIC TUFF	5.2m	6.0m	100%			
6		DCLT is quite variable in texture and alteration, however this rock is generally dark greyish green and contains abundant though indistinct whitish grey	6.0m	9.0m	100%			

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		plagioclase "phenocrysts" in a darker matrix; locally						
		lithic fragments? of similar rock are noted. The rock						
7		itself appears to be pervasively altered but more						
		noticeable are sections varying from crackled zones or						
		local veinlets to breccia zones where the open spaces						
		or matrix between fragments has largely been replaced						
8		by silica - whiteish quartz, chalcedony or jaspelite;						
		or a seritization of the rock accompanied by bleaching.						
		About 1% Py is disseminated throughout the rock						
		with the greater percentage being associated with the						
9		silica rich breccia zones.	9.0	12.0	83			
		Intensity of foliation is moderate to weak.						
10								
11								
crackle breccia								
qtz. veins 12 with minor Py and Cpy			12.0	15.0	106			
13								
		Box 2 13.6-20.6 m						
		DACITE CRYSTAL LITHIC TUFF & GARIBALDI DYKE						
14		Same general description as above. D.C.L.T. is						
		cut by black Garabaldi dyke from 17.5 -19.1 m. Contacts						
		are sharp and along minor fault or slip at 20° to c/a.						

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
15		The black dyke is essentially unaltered and is characterized by small amygdules of more silicious composition and small buff coloured needle-like phenocrysts. The contacts are marked by a relative 2 cm wide grey olive colouration.	15.0	18.0	100			
16								
17 white qtz veins								
18			18.0	21.0	120			
19 jaspelite stringers								
20		Box 3 20.6 - 27.5 m						
21		D.C.L.T. Same as above general description but long sections of variably altered rock along what appears to be crackle zones. Alteration varies from white quartz to a slight silicification or bleaching of the matrix.	21.0	24.0	105			
22 white qtz. and jaspelite stringers crackle zone								
23								

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
24			24.0	27.0	103							
25												
26												
appears to be lithic frags. cut by qtz. veinlets with local Cpy												
27			27.0	30.0	103		61101	355	555	1690	0.9	5
		Box 4 27.5 - 34.1 m										
		D.C.L.T. & LOCAL MASSIVE SULPHIDES										
28		Same as general description but characterized by an irregular blotchy stockwork of grey to white quartz and jaspelite cutting D.C.L.T.										
29		From 28.9 - 29.1 m SEMI MASSIVE SULPHIDE - consisting of blebs of Py & Cpy (ratio 4:1) associated with minor local quartz veining.										
30												
jaspelite common			30.0	33.0	112		61102	1925	80	6290	2.4	35
31												
32												

TEXASGULF INC. DRILL HOLE LOG

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppb)	Ag(ppm)	Au(ppb)
33			33.0	36.0	100							
34		Box 5 34.1 - 41.4										
		D.C.L.T										
		Same general description. Rock is generally foliated with foliation intensity moderate to good. Location										
35		sections of stockwork with the silica being chalcedony. Foliation is around 40° to c/a.										
36			36.0	39.0	90		61103	70	96	1430	0.7	15
37												
chalcedony 38												
39			39.0	42.0	100		61104	63	100	294	0.3	15
40												
white qtz 41												

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 6 41.4 - 49.0 m						
white bull qtz.		D.C.L.T.						
42		Rock is generally lighter coloured because of increase	42.0	45.0	92			
		in alteration intensity. Qtz. veining is minimal						
		except for later bull white qtz. veinlets. Much of						
		the DCLT has been altered to a light greyish green						
43		sericite and lesser silica. Unaltered or partially						
		altered islands of DCLT is left in a matrix of						
		altered rock - the texture is suggestive of a coarse						
		breccia but the effect is definately caused by partial						
44		alt. of the rock to sericite and silica. The						
		plagioclase "phenocrysts" are generally destroyed.						
		Although the alteration is generally gradational it						
		would appear that fractures may have somewhat						
45		controlled the spread of alteration.						
			45.0	48.0	103			
46	PARTIALLY ALTERED DCLT							
47								
48								
			48.0	51.0	120			
49		Box 7 49.0 - 55.7 m						
		D.C.L.T.						
		Partially altered DCLT continues						
50								

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
50 alteration has a pseudo-breccia texture		Dark green dacite with pervasive speckled feldspar crystal fragments and buff brown phenocrysts. Light grey green alteration zones occur randomly. In some						
51		of the alteration zones hairline silica fractures are seen.	51.0	54.0	120			
	PARTIALLY ALTERED DACITE	54.2 - 54.9 m pervasive qtz.-sericite alteration Foliation 50° to c/a. @ 55.8. Light grey white to						
52		grey green strongly foliated for .7m with sharp						
pyrite-2cm blebs		upper and lower contacts.						
		Above and below quartz sericite zone are sections of						
53		relatively unaltered dacite.						
54			54.0	57.0	100			
55								
trc pyrite		Box 8 55.7 - 62.9 m D.C.L.T.						
		Pervasive qtz-sericite alteration throughout.						
56		Light grey white with bluish qtz. stringers. Foliation 50° to c/a @ 56.4m, 55° to c/a @ 61.3 m.						
		General increase in qtz veining down hole. Major qtz vein (10 cm wide) at 57.9m contains angular inclusions						
57		of surrounding rock. In other places (i.e.61.8m) qtz	57.0	60.0	100			
qtz-se 'schist'		veins appear to fill brecciated zones where larger fragments occur but seem to be in place. Qtz veins also occur as small stringers from 1mm to 1cm in width						
58		at angle from 40° - 70° to c/a.						

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
59		There appears to be at least 2 sets of qtz. veins.										
60			60.0	63.0	100							
61 pyrite												
62												
		Box 9 62.9 - 70.1 m										
63 trc. galena and pyrite		D.C.L.T.	63.0	66.0	100		61105	18	445	115	1.2	30
		Pervasive qtz-sericite alteration. Same general description as above with qtz. veining continuing to										
64 trc. pyrite		64.6m then a complete lack of qtz. veins until the middle of Box 10.										
		Slightly lighter grey near 69 - 70.0 m										
		Broken ground 65.2 - 68.0 m.										
65												
BROKEN CORE 66			66.0	69.0	97							
67												

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
68												
69			69.0	72.0	113							
70		Box 10 70.1 - 77.0 m										
		D.C.L.T.										
71		70.1 - 72.6 Quartz-sericite foliated light grey dacite										
		72.6 - Darker grey, foliation very weak to										
		absent. Quartz veins, sericite and silicification										
72		still present.										
		Pyrite 1-2% through last 1/2 of box. Quartz veins										
		appear to be filling blocky brecciated zones.										
73												
trc pyrite												
74												
75			75.0	78.0	100		61106	98	27	690	1.0	110
76												

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
PYRITE 77		Box 11 77.0 - 84.1 m D.C.L.T.										
		Dark grey with local white plagioclase phenocrysts										
78		and buff brown specks. 77.5 - 78.5 m.										
		78.5 - 80.0 m. sericitization zone is mostly light grey with blacker, unaltered blebs.	78.0	81.0	105							
79		Last part of box is weakly altered as sericite shows on fractures but strong foliation is absent.										
		83.5 2cm. fragment.										
80 trc pyrite cubes		80.0 - unaltered dark grey dacite.										
81			81.0	84.0	97							
82												
83												
large pyrite blebs												
		Box 12 84.1 - 91.1 m D.C.L.T.										
84			84.0	87.0	103							
		Dark grey to 87.6 where a gradual change to greenish black occurs.										
85												

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		85.6 - 85.9 subrounded lithic fragments aligned at 40° to c/a. At 85.6 m. a 5cm. zone of contorted pyrite bands exist.						
86								
		88.5 more fragments are aligned along foliation 40° to c/a. The bands are thinner and smaller. Trace of jaspelite.						
87			87.0	90.0	97			
		Latter part of box still has sericite but probably chlorite as well. General absence of pyrite.						
88								
89								
90			90.0	93.0	100			
91		Box 13 91.1 - 98.3						
		D.C.L.T.						
92		91.1 - 95.7 Dark green to blackish green dacite. General absence of fragments and foliation. No mineralization.						
		95.7 - Dark red blebs of jaspelite in a light grey-green foliated dacite.						
93		Weak to moderate sericitization with 40° foliation @ 97.3.	93.0	96.0	100			

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
94								
95								
96			96.0	99.0	100			
JASPELITE								
97								
98		Box 14 98.3 - 105.3 m						
		D.C.L.T. and GARIBALDI DYKE						
99		Same general description as above for jaspelite bearing sericitized unit to 100.5. Foliation is 40° to c/a @ 99.2 m.	99.0	102.0	100			
100 STRONG JASPELITE		101.7 - 102.5 m Garibaldi basaltic dyke; black with calcite amygdules (< 2 mm in diameter) Generally aphanitic.						
101		102.5 m - Relatively unaltered dacite with irregular jaspelite veins and occasional fragments.						
102			102.0	105.0	100			

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TEXTURE, ALTER'N. MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
103								
104								
105		Box 15 105.3 - 112.1 m						
		DACITIC LITHIC TUFF & TUFF BRECCIA	105.0	108.0	100			
106		Dark grey with a distinctive patchy to locally pervasive maroon (jaspelite) mottling. No visible schistosity or foliation. Augite porphyry andesite fragments to 6 cm (≤ 5%) are generally angular and show irregular diffuse boundaries and may be lensoidal in shape. Fragments are lighter grey than dacite and contain 20% chloritized augite phenocrysts to 3mm in size. Jaspelite stringers cut dacite and dacitic lapilli tuff fragments.						
2mm white qtz veinlet (70° to c.a.)								
107								
108			108.0	111.0	90			
maroon altn								
109								
110								
111			111.0	114.0	100			

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
112		Box 16 112.1 - 119.2 m										
		DACITE CRYSTAL LITHIC TUFF										
113		112.1 - 114.7 m is same as in box 15 but shows a distinct development of a weak to moderate foliation, defined by jaspelite, qtz. and qtz-py veinlets, and										
13.6m - Qzt-py stringer		sericitic fractures oriented 50° to c/a. This										
114		interval shows an increase in qtz. stringers and pyrite. Concentration of pyrite cubes (2cm zones)	114.0	117.0	100		61107	361	162	185	1.1	60
		occur at 114.6 and 114.8 m.										
115		This interval grades over 10 cm into the DCLT which generally shows pervasive quartz-sericite-pyrite										
1cm qtz-py vein (75 to c.a.)		alteration and a white qtz. vein stockwork to 116.5m.										
116		116.5 - 119.2 m consists of locally silicified DCLT with local crosscutting white qtz. veinlets with lesser jaspelite stringers. Minor disseminated pyrite occurs throughout.										
117			117.0	120.0	100		61108	8	35	139	0.2	10
118												
119		Box 17 119.2 - 126.1 m										
		DACITE CRYSTAL LITHIC TUFF										
		DCLT has been silicified to variable intensities.										
120		Silicification occurs as a pervasive alteration of the										

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
		dark grey DCLT: or as white qtz veins or veinlets	120.0	123.0	110		61109	217	110	9580	1.9	50
		which may take on a crackle breccia appearance in										
		more intense zones; or as cherty replacement type										
		silicification. These silicified zones overprint and										
121												
crackle breccia		crosscut earlier jaspelite. Sericitic shears may be										
		associated with the silicification (i.e. 124.5m)										
		123 m - 20 cm white qtz-py-sphalerite zone with										
122		minor disseminated pyrite throughout.										
			123.0	126.0	100							
123												
qtz-py-Zn.5												
124												
py bleb												
125												
126												
		Box 18 126.1 - 132.6 m	126.0	129.0	100		61110	13	58	9200	0.4	40
'chert zone'		DACITIC CRYSTAL LITHIC TUFF WITH LOCAL TUFF BRECCIA										
127		Intense silicification is present to 129.4 m. Silic.										
		occurs as greyish brown 'cherty' quartz with minor										
		disseminated pyrite and sphalerite blebs. Local white										
		quartz veinlets (50° to c/a) crosscut the 'cherty'										
128		quartz.										
10cm zone of blebs		129.4 - 132.6 m consists of relatively unaltered DCLT										
of honey sphalerite		with local light grey angular to lensoidal augite										
		porphyry fragments to 4 cm. Minor jaspelite veinlets										

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
129		and local pyrite stringers and blebs occur throughout.	129.0	132.0	100							
130												
131												
ZnS blebs												
py stringer 132		Box 19 132.6 - 140.0 m	132.0	135.0	85							
		DACITE CRYSTAL LITHIC TUFF										
133		DCLT is relatively unaltered but chlorite-sericite shears locally give a shistose appearance to core (40° to c/a). A foliation at 40° is also present and is defined by dark grey lensoidal chloritized fragments (138 m).										
134		137.5 m - 140 m. This interval could represent a different rock unit but textures are obscured by alteration. An andesitic augite porphyry with subhedral broken augite phenocrysts to 4 mm (2 mm average) might best describe this interval. Phenos 20% - dark grey green (chloritized) groundmass 80% - greenish grey										
135												
py bleb			135.0	138.0	95							
136		This andesitic porphyry is basically of the same lithology as fragments or inclusions found in Box 15.										
qz-pyrite stringer 137												

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
138			138.0	141.0	100							
qtz-ch-se altn												
139												
139.0→139.3m - fault gouge												
140		Box 20 140. - 146.8 m DACITIC CRYSTAL LITHIC TUFF AND ANDESITIC AUGITE CRYSTAL TUFF										
minor pyrite blebs and 141 stringers throughout		The andesitic augite porphyry described in Box 19 continues to 144.1 m (5.3. m thick) and could represent an interbed within the dacite. The upper and lower contacts are poorly defined as they are gradational.	141.0	144.0	105							
142		144.1 m - 146.8 DCLT has been variably altered to jaspelite. The most pervasively silicified zone occurs at 144.7m and continues to end of box. This jaspelite-py alteration has been superimposed by later white quartz veining and silicification (146.2 - 146.8 m).										
143 143.3m - 10cm zone of jaspelite-pyrite altn												
144		Pyrite occurs as blebs to 1 cm. and as disseminated cubes to 2 mm.	144.0	147.0	100		61111	1795	11	107	1.9	15
clusters 145 of py. cubes	py											
Se. zone 146	py JASPELITE											

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
py blebs to 1cm	py											
147		Box 21 146.8 - 154.0 m DACITE CRYSTAL LITHIC TUFF	147.0	150.0	80		61112	9	9	185	0.2	10
py cubes 148	py	DCLT is variably silicified. Intense pervasive jaspelite-py alteration with later white qtz. veins continues until 148.7 m. This interval generally shows a mottled appearance with sparse relic silicified feldspar crystals. Pyrite occurs as										
149		stringers, as blebs to 3 cm and as scattered cubes. Jaspelite decreases through this interval and disappears at about 149.5 m.										
150		149.5 - 154.0 m DCLT is weak to moderately silicified with local qtz veinlets to 1 cm (50°-80° to c/a) occuring throughout.	150.0	153.0	100							
2cm py bleb 151	py	152.6 m - 15 cm zone of white qtz-py veins occur with a 15 cm chloritic halo. Feldspar (→ chlorite) crystals are roughly aligned 40° to c/a and parallel qtz. veinlets in this zone.										
152												
153	py		153.0	156.0	100							
py blebs 154	py py	Box 22 154.0 - 160.8 m D.C.L.T. AND INTERBEDDED ANDESITIC AUGITE CRYSTAL TUFF										
1cm qtz-py vein (65°to c/a) 155		Approximate contacts are 154.. → 157. m and aug.porph. 157.0 → 158.6 DCLT.										

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
		158.6 → 159.7 m and augite porph.										
		159.7 → DCLT										
		The andesitic augite porphyry is characterized by										
156		chloritized augite crystal fragments (locally										
crackle breccia	py	euhedral) (1-5mm) 5-30% in a light greyish green	156.0	159.0	100		61113	17	8	178	0.3	15
-pyrite stringer		fine-grained matrix. The crystals define a weak										
(70° to c.a)		to moderate foliation at 30° to the core axis.										
157												
py cubes	py											
		Local intense jaspelite-pyrite and white qtz-pyrite										
		alteration and veining occur throughout. White qtz										
		veinlets (40° to c/a) crosscut jaspelite stringers										
158		and the foliation developed in the crystal tuff.										
159												
			~~159.0~~	~~162.0~~	~~100~~							
160												
160.1 → 160.7 - 60cm	py											
of diss. py to 5%												
	py	Box 23 160.8 - 167.5 m										
161		DACITE CRYSTAL LITHIC TUFF WITH MINOR INTERBEDS OF										
		ANDESITIC AUGITE CRYSTAL TUFF										
		DCLT is relatively unaltered with local intense										
1cm qzt- 162		silicified ± pyrite zones. White qtz and greyish										
py veinlet	py	qtz-pyrite veins account for <1% of core and cut	162.0	165.0	100							
		core axis at 30° to 40°.										
		Minor jaspelite stringers and local pyrite blebs										
		occur throughout.										
163												
10cm qtz-py												
veining	py											

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppb)	Au(ppb)
164												
165			165.0	168.0	100		61114	59	14	171	0.4	20
166 15cm qtz-jaspelite pyrite												
167		Box 24 167.5 - 175.3 m DACITE CRYSTAL LITHIC TUFF AND ANDESITIC CRYSTAL TUFF AND GARIBALDI DYKES										
168		167.5 - 168 m DCLT with local white qtz stringers which may be offset (2 cm) by qtz filled microfaults (167.9 m). The andesitic tuff generally shows mod. to good foliation (40° to c/a) with local patches of intense chlorite-sericite alteration (171.2 m).	168.0	171.0	60							
169	missing core	170 - 170.1 m - 10 cm. zone of augite porphyry breccia with fragments (10%) to 1 cm. This breccia zone caps a 15 cm brown to black cherty rhyolite dyke which shows flow banding roughly parallel to the core axis. Lower contact with porphyry is sharp and irregular.										
170												
171		172.2 - 172.7 m - 5 cm. dark brown cherty rhyolite dyke with vague flow banding (40°) and ghosts of darker fragments (1-2 mm). Upper and lower contacts are sharp and irregular and are marked by 1 cm zones of darker chert (chilled margins).	171.0	174.0	90							
172		1 mm inclusions of surrounding porphyry are found 1 cm below upper contact.										

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
172.8 - Burnt drill bit		172.7 - 175.3 m - interval shows locally well						
173		developed foliation defined by augite phenos and						
		chlorite-sericite shears.						
		These shears locally overprint primary porphyritic						
		textures.						
174								
			174.0	177.0	100			
175		Box 25 175.3 - 182.5 m						
1cm qtz-py veinlet (70° to c.a.)		ANDESITIC CRYSTAL TUFF						
		Relatively unaltered andesite varies from light grey						
176		green to darker grey. This color variation is due						
		to variations in chlorite-sericite alteration.						
		Chlorite shears and minor qtz gashes define a						
		foliation at 35-45° to c/a.						
177		Local pyrite lenses, stringers and dissemination						
		occur throught box.						
			~~177.0~~	~~180.0~~	~~105~~			
178								
179								
180								
			180.0	183.0	103			
181								

TEXASGULF INC.

DRILL HOLE LOG

HOLE NO. BM-1-81

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
182		Box 26 182.5 - 188.5 m						
py blebs		ANDESITIC CRYSTAL TUFF						
		Generally the same as box 25 but with local zones of						
183		grey to white quartz + pyrite stringers and veinlets;						
183.1m - 5cm zone		also an overall increase in pyrite.	183.0	186.0	100			
of 5% py. cubes								
		186.8 - 1 cm fault gouge defined by light grey clays						
184		with a surrounding 20 cm zone of fault breccia.						
184.1 - 6cm of fine		Quartz stringers may develop locally into zones						
diss. py. to 20%		of crackle breccia (i.e. 186.6 m).						
185								
jaspelite stringers								
3cm zone of diss.								
py cubes 186								
to 10%			186.0	189.0	103			
186.6m - crackle brx.								
186.8m - 1cm fault								
187								
gouge with associated								
brecciation								
187.4 - diss. py. to								
40%. 188		Box 27 188.5 - 196.7 m						
		ANDESITIC CRYSTAL TUFF AND MINOR D.C.L.T.						
		Same description as previous box. Qtz. veins						
189		35-50° to core axis and intense silicification						
		occur locally; an increase from previous box.	189.0	192.0	100			
		Silicification may be associated with white white						
		qtz veins such as at 193.2 m where a 2 cm qtz vein is						
190		associated with a 15 cm light grey green qtz-se						

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
		alteration zone.										
		Silicification also occurs as deep pink to deep red										
		jasper (194.2m) in zones up to 10 cm wide.										
191												
20cm gouge zone		Intense pervasive qtz-sericite alteration occur										
		in last 30 cm of box.										
		Pyrite is present as lenses, disseminations and blebs										
		up to 30% locally.										
192			192.0	195.0	100							
			193.0	196.0			61115	540	81	282	0.8	140
193												
194												
195			195.0	198.0	100							
196		Box 28 196.7 - 203.6 m										
		CHERTY RHYOLITE (GARIBALDI DYKE)										
		Pervasive qtz-sericite alteration mentioned in										
		box 27 grades into massive light grey monotonous										
197		cherty rhyolite. Vague flow banding occurs locally										
		(i.e. 199.6 m) at 40° to c/a.										
198			198.0	201.0	103							

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TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
199								
200								
201			201.0	204.0	95			
202	RHYOLITE							
203								
	MASSIVE	Box 29 203.6 - 210.0 m LIGHT TO DARK GREY CHERTY RHYOLITE AND RHYOLITE BRECCIA						
204		Light grey cherty rhyolite (as in box 28) continues to 206.0 m and grades into darker grey cherty rhyolite with minor pyrite and rhyolite breccia.	204.0	207.0	93			
205		The breccia is characterized by grey to white subangular to angular chert clasts (≤1 cm) to 10% 'floating' in a grey to greenish grey cherty matrix.						
206		This matrix often shows swirly bands which may be concentric (i.e. 206.7 m). The breccia zone occur between 206 - 207.6 m (1.6 m) and between 208.4 and 208.5 (10 cm.).						
207		Minor chlorite-sericite shears parallel the core axis (i.e. 206.9m, 207.8 m). Quartz stringers (50° c/a) are also minor.	207.0	210.0	100			

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
208								
209								
210		Box 30 210.0 - 216.8 m						
		CHERTY RHYOLITE AND ANDESITIC TUFF	210.0	213.0	103			
211		Cherty rhyolite is dark greenish grey and shows vague banding. Sparse alkali feldspar phenocrysts occur up to 1mm in size. This rhyolite grades over 5 cm at 211.1 m to an intensely altered pyritiferous grey andesitic tuff. Pervasive qtz-chlorite-sericite-pyrite alteration has overprinted primary textures.						
212		Fine disseminated pyrite to 20% occurs throughout. Minor qtz veinlets (50° to c/a) and white silicified zones also occur. 211.8 m qtz stringers, chlorite-sericite shears and pyrite bands define a foliation at 40° to c/a.						
213			213.0	216.0	100			
214								
215								
216			216.0	219.0	100			

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 31 216.8 - 223.9 m						
		ANDESITIC TUFF						
217								
		The description is the same as in box 30. Fine disseminated pyrite abrubtly decreases at about 220 m from 10 - 15% to 1%.						
218								
		218.8 m - 4 cm zone of white to greyish quartz breccia with subangular quartz fragments to 1 cm (<5%) locally cemented by chalcopyrite and minor sphalerite.						
4cm qtz-cp-sp vein								
219			219.0	222.0	100			
220								
221								
222			222.0	225.0	100			
223								
		Box 32 223.9 - 231.1 m						
		ANDESITIC TUFF						
3cm py blob		Same description as in box 30.						
224		Local pyrite blebs and minor disseminated pyrite.						
		Very minor qtz veining.						
		230-231.1 m - relatively unaltered andesite crystal						
225		tuff.						

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
			225.0	228.0	100			
226								
3cm PY bleb 227								
228			228.0	231.0	100			
229								
230								
2m dark red jasper veinlet 231		Box 33 231.1 - 238.0 m ANDESITIC TUFF AND TUFF BRECCIA	231.0	234.0	100			
232		Breccia fragments; light to dark grey, subangular to angular; occur up to 5 cm in size (≤10%) within the andesite tuff.						
232.7m 4cm py. frag.		233.3 m - 5 cm fault gouge define by grey andesitic and brown cherty angular fragments to 3 cm within a white to grey clay matrix (oriented 70° to c/a).						
233								
Fault gouge		Intense shearing has occured in about a 40 cm zone around the gouge.						

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
234			234.0	237.0	107							
235												
235.4m - 10cm of white qtz gashes with 10% py												
236												
237			237.0	240.0	96							
238		Box 34 238 - 245.0 m ANDESITIC TUFF										
239		The andesitic tuff is pervasively altered to quartz-chlorite-pyrite and is generally grey. Fine disseminated pyrite increases at 239 m and locally reaches intensities of up to 20% (242.6 m).										
1.2m fault gouge (80° to c.a.) 240		239.6 - 240.8 m 1.2 m fault gouge with 70% fragments within a white (bleached) to grey clay matrix, subangular fragments to >10 cm are of two lithologies	240.0	243.0	100							
241		1) 90% - altered augite andesite tuff and 2) 10% - greenish grey chert (242.7 - 243.1 m) 40 cm of maroon hematite-quartz-pyrite alteration py ≤ 20%.										
242			242.0	245.0			61116	8	9	169	0.2	20

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DRILL HOLE LOG

HOLE NO. BM-1-81

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
diss. py. 20%								
40cm of 243								
qtz-hem-py alt'rn			243.0	246.0	110			
244								
245		Box 35 245.0 - 252.1 m						
		ANDESITIC TUFF AND CRYSTAL TUFF, MINOR TUFF BRECCIA						
		Minor white quartz veins to 1 cm cut core axis at 40°.						
246			246.0	249.0	100			
		249.3 m - calcite stringers subparallel core axis. The fine-grained grey andesitic tuff grades into augite crystal tuff at 249.5 m.						
247								
248								
249								
calcite stringers			249.0	252.0	96.0			
250								
251								

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
251.6 2cm red calcite bleb								
		Box 36 252.1 - 258.5 m						
252		ANDESITIC CRYSTAL TUFF, LAPILLI TUFF AND GARIBALDI	252.0	255.0	103			
lapilli tuff		DYKE						
253		Crystal tuff is green andesite with 1-2mm dark green euhedral to anhedral crystals of augite. Phenocrysts						
		percentage varies from 40% where matrix is light green and crystals easily noticed, to 10% in darker zones.						
254		Foliation is not as pronounced as in other sections. Bright red veinlets occur. 256.5 - 257.5 m(jaspelite)						
		Disseminated pyrite is fairly continuous from 256 to 258.5 m.						
255								
		Andesite lapilli tuff 252.4 - 252.6 + 258.3 (2cm). Size of fragments varies 1 mm - 10 cm, averaging 4-5 mm. There are several fragment types of dark	255.0	258.0	103			
256		and light green lapilli as well as qtz and hematite rich crystals.						
256.0 → 258.5m qtz.-hem. veinlets with diss. pyrite								
		Garibaldi Dyke 253.4 - 256.0						
257		Dark grey black, fine-grained, homogeneous. No						
		foliation or mineralization. Quartz amygdules. Upper contact 10° to c/a has inclusions of wall rock and shows some grey alteration along wall, but no major effect.						
258								
			258.0	261.0	100			
fault gouge		Box 37 258.5 - 265.3 m						
		ANDESITIC CRYSTAL TUFF & DACITE CRYSTAL LITHIC TUFF						
259								
calcite-epidote veins		And. crystal tuff: same general description as above with qtz and calcite-epidote veinlets. Fragments are smaller therefore crystal tuff, not lapilli tuff.						
260								

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HOLE NO. BM-1-81 | PAGE NO. 31

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Dacite C.L.T. 261.6 - 262.7 m very faint white feld. phenocrysts, no augite crystals and slightly darker green. Note: no veins in this unit.						
261								
			261.0	264.0	100			
262								
calcite-epidote								
263								
hem. vein								
264								
			264.0	267.0	107			
trc. py								
265		Box 38 265.3 - 272.3 m ANDESITE CRYSTAL TUFF & DACITE CRYSTAL LITHIC TUFF						
266		265.3 - 266.7 m augite crystal tuff: same general description as above. Spare fine-grained pyrite.						
267		266.7 - 269.5 m transition zone. Very gradual change to dacite C.L.T. decrease in augite crystals						
py veinlet		without corresponding increase in felsic crystals. Zone has a dark green matrix.	267.0	270.0	103			
268		269.5 - DCLT feldspar crystals suddenly increase,						
diss py.		with a 30 cm zone of strong hematite alteration. Weak hematite continues to 269.7 m with disseminated pyrite.						

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
269		Pyrite as euhedral cubes up to 2 mm x 2 mm										
		270.7 m several large 1 cm to 1.5 cm phenocrysts.										
		271.0 - 271.5 m pyrite euhedra to 3 mm.										
		10% sulfides over the .5 metre interval.										
270												
			270.0	273.0	103		61117	8	8	164	0.2	10
271												
10% py.												
272												
		Box 39 272.3 - 279.5 m										
		D.C.L.T. + DACITE BRECCIA TUFF										
273		DCLT - same general description with pyrite to 273.4 m.										
			273.0	276.0	100							
		273.4 → end of box; dacite breccia tuff.										
		Most of fragments are augite porphyry andesite, and										
274		range in size from <1 cm to 3 cm x 2 cm.										
		Most are subhedral with one or two square sides but										
		partially eroded.										
275		275.5 m several altered augite crystal tuff fragments										
		from 2 mm x 2 mm to 2 cm x 2 cm.										
		Buff speckled phenocrysts(?) possible part of										
		alteration associated with weak sericite-chlorite										
276		alteration.										
			276.0	279.0	97							
277												

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DRILL HOLE LOG

HOLE NO. BM-T-81

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppb)	Au(ppb)
278												
279		Box 40 279.5 - 286.1 m	279.0	282.0	113							
		DACITE BRECCIA TUFF & ANDESITIC CRYSTAL TUFF & GARIBALDI DYKE										
280												
		279.5 - 280.3 m D.B.T. same general description as before.										
		280.3 - 285.2 m andesite crystal tuff.										
281		Light green with dark green small phenocrysts. Very weak foliation 60° @ 280.6 m										
		282.3 - 282.9 m increase in pervasive pyrite to 5%. Stronger foliation at 282.9 60° to c/a.										
282		Short sections of potassic alteration @ 283.5 - 283.7 m @ 284.35 - 284.55 m.	282.0	285.0	113		61118	129	7	155	0.2	25
		285.2 - 286.1 m Garibaldi Dyke										
283		Black, finely crystalline with qtz and calcite amygdules.										
		Several vugs with small calcite crystals.										
Potassic alteration												
284												
Potassic alteration												
285			285.0	288.0	100							
286												

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	Au(ppb)
		Box 41 286.1 - 292.7 m										
		GARIBALDI DYKE + D.C.L.T. & ANDESITE CRYSTAL TUFF										
287		286.1 - 287.1m Garibaldi Dyke										
		same general description as above.										
		287.1 - 291.1 m Dacite crystal lithic tuff.										
		Dark green matrix, phenocrysts faint but visible,										
288		pyrite cubes 2-3 mm across 290.8 - 291.0 m	288.0	291.0	100							
		Good contact with augite porphyry andesite below.										
289		291.1 - A.P.A. Same general description as before										
		with foliation very weak to absent.										
		Pyritic zone 292.2 - 292.7 m; 5% disseminated cubes										
		<1mm → 2 mm associated with very weak potassic										
290		alteration (pink).										
contact 291			291.0	294.0	107							
292		Box 42 292.7 - 299.7 m										
		ANDESITIC CRYSTAL TUFF AND D.C.L.T.										
293		The last 2 metres of the box are typical A.C.T.										
Potassic alteration		however, the majority of it is weak to strongly										
		potassicly altered with associated pyrite.										
		~~295.5 - 295.9 m + 296.8 - 297.2 m are the zones of~~										
294		strongest alt. 80% of core is altered. Disseminated										
		pyrite occurs as high as 10%. 295.7 m epidote band.	294.0	297.0	107		61119	480	9	106	0.7	10
		5 cm wide										
Pyrite		296.4 contact 20° to c/a.										
295												

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TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
epidote	ACT							
296								
297	DCLT		297.0	300.0	100			
298	ACT							
299		Box 43 299.7 - 306.4 m						
		ANDESITIC AUGITE CRYSTAL TUFF & ASH TUFF						
300		Typical section of A.C.T.; green matrix with dark green phenocrysts. Several calcite epidote veins. 50° to c/a vein attitude is fairly consistent.	300.0	303.0	100			
calcite								
301		305.9 - 306.4 m Andesitic Ash Tuff						
302								
calcite & epidote veins 303			303.0	306.0	100			

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TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
304								
calcite-hematite								
305								
306								
			306.0	309.0	103			
		Box 44 306.7 - 313.6 m						
307		DACITE ASH TUFF ANDESITE TUFF BRECCIA						
calcite-pyrite-ZnS-hematite 308		Fine-grained blackish green matrix with few fragments. Several calcite qtz veins. 307.5 - Potassic altered fragments 3 cm x 4 cm. 308.9 - light green A.C.T. fragments 1 cm x 2 cm.						
309								
			309.0	312.0	100			
310 calcite-qtz								
py 311								
312								
			312.0	315.0	100			

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
313		Box 45 313.6 - 320.8 m DACITE ASH (BRECCIA) TUFF						
314		Same general description as above 313.5 + 314.0 Fragments of A.C.T.						
		~~319.9 m - broken and ground-up core.~~						
315 pyrite seams		Rounded and abraded with circular imprints of bit.	315.0	318.0	100			
316								
317								
318			318.0	321.0	94			
319								
320								
321			321.0	324.0	96			

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HOLE NO. BM-1-81

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 46 320.8 - 328.1 m						
		DACITE ASH TUFF + ANDESITE CRYSTAL LITHIC TUFF						
322								
qtz-cc-ep veinlet		Dacite tuff is same general description as above to the contact at 224.2 m.						
		Very distinct contact. Fragments range from mm size						
323	DCLT	to 1.5 cm x 3 cm at 224.05 m.						
		A.C.L.T. is fine-grained, light green matrix with						
		occasional crystal fragments.						
324		325.1 - 325.5 is a zone of calcite vugs and calcite-						
qtz-cc veinlet		epidote vugs.	324.0	327.0	100			
		Quartz-calcite veining occurs at 327.5 and 328.0 m						
325		with sparse disseminated pyrite.						
	ACLT							
326								
327								
			327.0	330.0	100			
calcite								
328		Box 47 328.1 - 335.2 m						
		ANDESITE CRYSTAL LITHIC TUFF AND DACITIC CRYSTAL						
		LITHIC TUFF (LAPILLI TUFF; TUFF BRECCIA)						
329		328.1 - 329.9 m - ACLT is darker grey and finer						
		grained than DCLT with local sparse 1-5 mm light						
		grey lithic fragments.						
qtz-hem altn		ACLT grades over 20 cm into the lighter grey DCLT.						
330								

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DRILL HOLE LOG

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Lapilli tuff is characterized by light grey tuff fragments to 4 mm.	330.0	333.0	100			
		333.8 - 334.5 m - Tuff breccia						
331		Dark grey subangular to angular andesitic frags.						
		(≤20%) to 3 cm may be elongated in a parallel orientation and define a foliation 40° to c/a.						
		Minor white qtz. stringers (<1%) 80° to core axis.						
332		334.5 - 335.2 m andesitic crystal lithic tuff with						
		local irregular shaped light grey fragments. Contact with overlying dacitic tuff breccia is sharp at						
333		50° to core axis.						
	DCLT		333.0	336.0	100			
334								
contact								
335		Box 48 335.2 - 342.4 m						
		ANDESITIC ASH TUFF WITH MINOR LAPILLI AND BRECCIA TUFF						
336		Andesitic ash tuff is generally light grey and homogeneous with breccia size fragments occuring	336.0	339.0	100			
		at 334.4 - 336.0 m, 341.2 m.						
		338.6 - 339.2 m Polylithic lapilli tuff with dark grey subangular fragments (15%) and light grey						
337	ACAT	subrounded fragments (5%) within a light greenish						
		grey fine-grained andesitic ash tuff matrix. Minor qtz. veins to 3 cm.						
338								

TEXASGULF INC.

DRILL HOLE LOG

HOLE NO. BM-1-81

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
339			339.0	342.0	100			
340								
341								
342		Box 49 342.4 - 349.3 m ANDESITIC ASH TUFF	342.0	345.0	105			
343		Homogeneous, grey, finely crystalline andesitic ash tuff is relatively textureless with minor quartz stringers (60° to c/a) and gashes and with local zones of disseminated pyrite to 20%.						
343.3 → 343.7m diss. py. 20%								
344								
345			345.0	348.0	100			
346								
347								

TEXASGULF INC.

DRILL HOLE LOG

HOLE NO. BM-1-81

TEXTURE, ALTER'N. MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
348								
			348.0	351.0	103			
349		Box 50 349.3 - 356.5 m ANDESITIC ASH TUFF						
350		Same description as in box 49 but with minor greyish yellow quartz-pyrite vienlets from 354.7 - 356.5 m, and with minor reddish quartz-hematite stringers to 2mm with 1-2 cm reddish hematitic alteration halos. (354.9 m)						
351								
			351.0	354.0	100			
352								
353 qtz. stringers (60° to c.a.)								
354								
			354.0	357.0	105			
355								
356								

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 42

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 51 356.5 - 363.3 m						
		ANDESITIC ASH TUFF WITH MINOR TUFF BRECCIA						
357		Description same as box 49	357.0	360.0	100			
		362.7 - 363.3 m Lighter grey subrounded breccia fragments (1%) to 3 cm.						
358		Minor quartz stringers (75° to c/a) <1% and disseminated pyrite.						
359								
360			360.0	363.0	100			
361								
362								
363		Box 52 363.3 - 370.3 m						
		ANDESITIC TUFF BRECCIA	363.0	366.0	107			
364		Andesitic ash tuff grades over 20 cm into an interval of polylithic tuff breccia with 5-40% fragments ranging from <1 cm to >5 cm (363.5-370.3m).						
364.8→365.5 diss. py cubes		Breccia fragments are of three lithologies 1) Light grey to hematitic augite crystal tuff fragments; fragments are subangular to subrounded						
365								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 43

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		with irregular clast boundaries. These fragments vary						
		in hematitic alteration from light grey, unaltered,						
		through to deep red, intensely altered. (90%)						
366		2) Dark grey subrounded andesitic ash tuff fragments						
		with sharp boundaries (10%) (i.e. 366.5 m)	366.0	369.0	100			
		3) Minor white angular quartz fragments (367.8m)						
		-sparse white quartz veinlets and disseminated						
367		pyrite occur throughout						
368								
369			369.0	372.0	100			
370		Box 53 370.3 - 377.2 m						
		ANDESITIC TUFF BRECCIA AND ANDESITIC ASH TUFF						
		Breccia fragments decrease in amount through first						
371		50 cm of box and lithology grades back into the						
		finer grained homogeneous greenish grey andesitic						
		ash tuff with local scattered breccia fragments.						
372		Quartz-pyrite veinlets are minor and local						
		disseminated blebs and cubes (≤5mm) of pyrite occur	372.0	375.0	100			
py cubes		throughout.						
373								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 44

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
374								
375			375.0	378.0	100			
376								
377		Box 54 377.2 - 384.2 m						
		ANDESITIC ASH, LAPILLI AND TUFF BRECCIA AND ANDESITIC AUGITE CRYSTAL TUFF(AUGITE PORPHYRY ANDESITE)						
378		377.2 - 381.2 m, this interval consists of the ash tuff with local zones of breccia (377.2-378. m) and with scattered fragments to >10 cm. (380.3m).	378.0	381.0	100			
379		Breccia fragments are of one type; light grey subangular augite porphyry fragments with sharp boundaries; these fragments may be hematitic.						
380		This interval shows abundant disseminated cubes and blebs of pyrite to 20% 381.2 - 382.5m						
		The ash and breccia tuff grades over 5 cm into an interval of light grey green andsitic lapilli tuff.						
381		The lapilli tuff is characterized by dark grey subangular fragments to 30% within a fine-grained greyish green matrix. Pyrite is minor.	381.0	384.0	107			
		382.5 - 383.6 m The lapilli tuff grades over 50 cm into underlying augite crystal tuff. This 1.1m interval grades over 10 cm into andesitic ash tuff.						
382		383.6 - 384.2 m Andesitic ash tuff.						

TEXASGULF INC.

DRILL HOLE LOG

HOLE NO. BM-1-81

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
383								
384								
384m - 3cm grey qtz = py vein (50° to c.a.)		Box 55 384.2 - 391.4 m ANDESITIC ASH TUFF BRECCIA TUFF AND INTERBEDS OF ANDESITIC AUGITE CRYSTAL TUFF	384.0	387.0	100			
385		Description same as previous boxes. Breccia fragments consist of dark grey angular tuff fragments to 3 cm and light grey augite crystal tuff fragments to 3 cm. Contacts with augite crystal tuff are gradational (388.7 m) Pyrite stringers, bands, blebs and disseminations occur throughout. Quartz-calcite veinlets to 1 cm are minor.						
385.9m - qtz-cc veinlet py blebs								
386								
387								
387.3m - 5mm py. stringer			387.0	390.0	100			
388								
20cm of qtz-cc stringers and cc amygdules								
389								
1cm py band (50° to c.a.)								
390								
20cm of py blebs			390.0	393.0	100			
391								

Ash Tuff

Lapilli

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 46

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 56 391.4 - 398.7 m						
		ANDESITIC ASH TUFF AND POLYLITHIC TUFF BRECCIA						
392								
20cm qtz-calcite stringers		Same description as previous						
		Quartz veins are absent but white quartz-calcite						
		veins and stringers are common.						
393		Fine disseminated pyrite and pyrite blebs are locally	393.0	396.0	100			
		abundant (392.3 - 393.5 m).						
394								
3cm py bleb 395								
396								
			396.0	399.0	95			
397.6m 5mm py band								
397								
398		Box 57 398.7 - 407.8 m						
		ANDESITIC ASH TUFF AND TUFF BRECCIA						
399		Greyish green finely crystalline andesitic ash tuff						
		is relatively homogeneous but with local sparse	399.0	402.0	33			
		light grey tuffaceous fragments and reddish						
	MISSING CORE	siliceous fragments (398.7 m).						
400								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 47

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		403.5 - 405.7 m Andesitic tuff breccia 10 - 30%						
		Dark grey subangular fragments to 3 cm are roughly						
	MISSING CORE	aligned 80-85° to the core axis.						
401		Pyrite and quartz veining are very minor.						
402			402.0	405.0	100			
403								
404								
405			405.0	408.0	100			
406								
407		Box 58 407.8 - 415.3 m						
		ANDESITIC ASH TUFF AND TUFF BRECCIA						
		Same description as in previous boxes. Light to dark						
408		grey (locally hematitic) subangular to subrounded						
		fragments to 3 cm occur scattered throughout tuff	408.0	411.0	93			
		(<1%).						

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 48

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
409		Minor quartz ± calcite veinlets to 5 mm occur						
		oriented 60° to core axis. Minor pyrite.						
410								
411								
			411.0	414.0	103			
412								
413								
414								
			414.0	417.0	100			
415		Box 59 415.3 - 422.6 m						
		ANDESITIC ASH TUFF AND TUFF BRECCIA						
416		Same description as in previous boxes.						
		Very minor quartz stringers. Local pyrite blebs.						
417								
			417.0	420.0	113			
Pyrite blebs								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 49

TEXTURE, ALTER'N. MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
418								
419								
420			420.0	423.0	100			
421								
421.5m 1mm qtz-calcite stringer (50° to c.a.)								
422		Box 60 422.6 - 429.8 m ANDESITIC ASH TUFF AND BRECCIA TUFF						
423		Same description as previous boxes. Augite crystal tuff fragments occur locally. Quartz stringers (2mm) are very minor and are oriented 60° to core axis. Local concentrations of disseminated pyrite cubes (i.e. 424.6 m)	423.0	426.0	100			
424								
40cm of diss. py to 10%								
425								
426			426.0	429.0	100			

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 50

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
427								
428								
429			429.0	432.0	100			
430		Box 61 429.8 - 436.9 m ANDESITIC ASH TUFF AND BRECCIA TUFF AND DACITIC CRYSTAL LITHIC TUFF						
silicified tuff 431		430.0 - 433.0 m consists of pervasively silicified andesitic ash and breccia tuff. Silicification has resulted in a light-dark grey mottled texture and has partially obscured breccia fragments. Silicified fragments are of two lithologies,						
432		1) Light grey subrounded fragments to 10 cm and 2) Reddish hematitic fragments.	432.0	435.0	102			
		Disseminated pyrite cubes to 10% and pyrite blebs are associated with the silicified interval						
433		434.5 - 435.0 m Andesitic ash tuff grades over this 50 cm interval into a dacitic lithic crystal tuff.						
434		435.0- 436.9 m The DCLT is characterized by 20-30% plagioclase crystal fragments to 3 mm within a grey fine-grained matrix. Local subrounded dark grey lithic fragments to 5 cm occur throughout. Minor white quartz veinlets to 2 cm occur 60°-70° to core axis.						
435	DCLT		435.0	438.0	100			

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 51

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
436								
		Box 62 436.9 - 444.1 m						
437		DACITIC CRYSTAL LITHIC TUFF						
		The DCLT shows an increase in quartz veining and silicification from the andesitic unit. Quartz-calcite and quartz-calcite-pyrite veinlets						
438		from 1 mm - 1 cm are generally oriented between 30°-45° to the core axis.	438.0	441.0	100			
		444.0 - 444.1 m - 10 cm of white quartz vein crackle breccia with associated disseminated pyrite						
439		and 1% coarsely crystalline honey sphalerite blebs.						
440								
441								
			441.0	444.0	100			
441.5m 1cm qtz-calcite-py vein (40° To c.a) 442								
443								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 52

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
			444.0	447.0	93			
444								
10cm qtz-py-sp		Box 63 444.1 - 451.8 m						
		DACITIC CRYSTAL LITHIC TUFF						
445	MISSING CORE	DCLT is relatively unaltered and homogeneous with only minor quartz stringers and veinlets oriented 40°-60° to the core axis.						
		444.2 - 444.4 m 20 cm andesitic augite crystal tuff.						
446								
minor diss. py.								
447			447.0	450.0	100			
448								
449								
450			450.0	453.0	100			
451								
		Box 64 451.8 - 458.6 m						
		DACITIC CRYSTAL LAPILLI LITHIC TUFF						
452								
		DCLT is of same composition as in previous boxes but plagioclase crystal size has increased to lapilli size						

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-1-81 | PAGE NO. 53

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		(3 - 4 mm) and up to 1 cm. The contact between the						
453		crystal and lapilli tuff at 454.2 m is marked	453.0	456.0	100			
		by an abrupt increase in crystal size rather than a						
		large gradational interval.						
Pyrite Stringers		Local white vuggy quartz veinlets to 1 cm cut						
454		core axis at 20°.						
455								
456			456.0	459.0	100			
457								
458		Box 65 458.6 - 459.6 m						
		DACITIC CRYSTAL LAPILLI CRYSTAL TUFF						
459		DCLT is the same as in previous box.	459.0	459.6	100			
459.6 m End of hole								
460		Dawn Fraser						
		George Cooper						
461								

10,293
PART
2 of 2

TEXASGULF INC.

DRILL HOLE LOG

HOLE NO.	PAGE NO.
BM-2-81	1

PROPERTY: BALDWIN - McVICAR

LOCATION: Mt. Baldwin Area Baldwin McVicar Group

Lat. 49°40' Long. 123°03'

AZIM: 080° ELEV: 1300 m

DIP: -47° LENGTH: 214.9 m

CORE SIZE: BQ

STARTED: October 16, 1981

COMPLETED: October 20, 1981

PURPOSE: To test I.P. anomaly

CORE RECOVERY:

DIP TEST

Metres	Azimuth	Dip	FOOTAGE	READING	CORRECT
16.4m	079°	-43.5°			
229.7m	079°	-30°			

CLAIM NO: WHISTLER

SECTION: B-B'

LOGGED BY: George Cooper & D. Piroshco

DATE LOGGED: Oct.17/81 to Oct.21/81

DRILLING CO: Longyear

ASSAYED BY: Bondar-Clegg

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH. GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Overburden 0 - 1.5m						
1		Box 1 1.5 - 9.7 m	1.5	3.0	55			
		ANDESITIC TUFF						
2		A.T. consists of white plagioclase crystal fragments in a dark green matrix with local zones of light green						
hem-py		chlorite alteration. At 9.0 m the rock appears as a breccia characterized by dark green lithic fragments in a light green matrix.						
3			3.0	6.0	100			
4		5 m - 30 cm zone of silicification and 0.5 cm wide irregularly oriented qtz. veinlets.						
intense silicification								
5								
6	PY		6.0	9.0	93			

10,293

PART

2 of 2

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 2

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
diss py								
7								
sulfide seams								
8								
9			9.0	12.0	67			
		Box 2 9.7 - 17.9 m						
		ANDESITE TUFF & DACITE CRYSTAL LITHIC TUFF						
10		A.T. is partially (5-25%) altered to se-chl. This alteration is characterized by a lighter grey-green						
		colouration. Remnant unaltered islands of andesite						
		give a coarse breccia texture to the interval. This						
11		alteration is cross-cut by qtz-py veins.						
		16.4 m sharp contact with D.C.L.T.						
		D.C.L.T. consists of 20-30% plagioclase crystals						
12		in a light greyish-green matrix. Quartz veins with						
		associated gn, cpy, py and hem cross-cut the DCLT.	12.0	15.0	93			
pyrite seam								
13								
14	py							
15			15.0	18.0	97			

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 3

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu(ppm)	Pb	Zn	Ag	Au
16												
py jaspelite qtz veins 17												
18		Box 3 17.9 - 24.6 m DACITE CRYSTAL LITHIC TUFF & ANDESITE TUFF & GARIBALDI DYKE	18.0	21.0	100							
19		Intensely veined and silicified. DCLT continues to 20.0 m with an indistinct contact with the andesite tuff. Grey colour persists, hardness decreases and plag. crystal decrease in amount. Qtz. veining with jaspelite and pyrite continues and is abundant throughout the box, except in the Garibaldi Dyke (20.9 - 22.0 m) which is post veining.										
20												
21			21.0	24.0	108		61120	39	113	990	0.6	105
22												
py jaspelite qtz veins 23												

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 4

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
24			24.0	27.0	97							
		Box 4 24.6 - 32.0 m	24.0	25.8			61121	211	98	2280	1.0	15
		ANDESITE TUFF - D.C.L.T.										
25		Andesite, dacite contact (26.1 m) is marked by presence of plagioclase crystals.										
		Both units are dark green to grey with jaspelite veins and blue grey chalcedony veins.										
26 chalcedonic qtz		29.0 m breccia fragments (altered augite porphyry?) Feldspar crystals in dacite can best be seen in last .5 m of box.										
white qtz. 27 trc. gn-sp			27.0	30.0	97							
28												
trc cp-py												
29												
30			30.0	33.0	93							
diss. py												
31												
trc. cpy	PY											
32												
trc. gn-sp-cp												

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 5

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
		Box 5 32.0 - 39.3 m										
		DACITE CRYSTAL LITHIC TUFF										
33	cp py		33.0	36.0	93		61122	16	32	187	0.8	25
intense veining and silicification		Dark green to black where unaltered. However, little of the box is unaltered. 30% of the core contains qtz. veins with traces of sphalerite,										
34	cp sp gn	galena and chalcopyrite. One 1 cm vein of massive cpy. @ 39.0 m.										
		One zone of light blue chalcedony @ 34.5 m										
35		Silicification from 35 - 39 m produces mottled 'breccia' texture.										
		35.6 - 37.5 m light grey DCLT										
	py											
36			36.0	39.0	100		61123	27	46	274	0.2	5
37												
38												
1cm cp vein 39		Box 6 39.3 - 46.5 m										
		D.C.L.T.	39.0	42.0	105							
		Dark green to black DCLT with mottled light blue										
40		green chalcedony type silicification. Zones of disemminated pyrite.										
41												

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 6

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Quartz with pyrite + other sulphides seem to post-date blue green chalcedony and another event of quartz veins cross-cuts the mineralization.						
42			42.0	45.0	102			
	PY							
43								
44								
45			45.0	48.0	105			
46		Box 7 46.5 - 53.6 m D.C.L.T.						
	PY							
47		Same general description as above. Blue green crackle breccia type veining. Little silicification outside of veining.						
48			48.0	51.0	100			
49								
50								

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 7

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
	PY							
51			51.0	54.0	100			
	PY							
52								
53		Box 8 53.6 - 61.0 m DCLT + Rhyolite (Garibaldi Dyke)						
54		Same general description as above with a Rhyolite dyke @ 40° to c/a from 54.35 - 54.7 m.	54.0	57.0	100			
55		Just below the Rhyolite for 10 cm is a breccia zone. Fragments are polymictic and very angular; average size 3 mm and range from 2 - 5 mm.						
chalcedony								
56								
57								
trc sp			57.0	60.0	100			
58	PY							
white qtz								

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 8

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
chalcedony 59								
white qtz								
60			60.0	63.0	100			
61		Box 10 61.0 - 68.3 m D.C.L.T.						
62		Dacite is generally the same as above. Chalcedony veins seem to be more regular and at approximately 60° to c/a (62.9m). 63.5 - 66.0 m						
chalcedony	PY	Mottled appearance with blue green chalcedony veins.						
63	PY	Contact with quartz sericite alteration is between 65.9 and 66.1 m.	63.0	66.0	97			
		65.9 m Dark green black changes to green and foliation becomes more intense.						
64		61.1 m; alteration is strong with shearing @ 45° and varies from 30° - 60° through rest of the box.						
chalcedony		Alteration is light grey with shearing highlighted by quartz veins.						
65	PY							
66	PY		66.0	69.0	103			
67	PY							

TEXASGULF INC.

DRILL HOLE LOG

HOLE NO. BM-2-81

PAGE NO. 9

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
68		Box 10 68.3 - 75.5 m						
		DACITE CRYSTAL LITHIC TUFF						
69		Light grey sheared unit with many quartz veins paralleling shearing.	69.0	72.0	103			
		40° @ 68.3 m						
		40° @ 72.0 m						
70		50° @ 74.0 m						
		74.9 - 75.1 m Light grey, fine-grained with less crystals. Transition to unaltered DCLT occurs between 74.9 and 75.1 m						
71								
72			72.0	75.0	93			
73								
74								
75		Box 11 75.5 - 82.9 m	75.0	78.0	100			
		D.C.L.T. + ANDESITE TUFF						
jaspelite 76	PY	Faint crystals can be seen near 75.5 m but are						

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 10

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		obscured by 76.0 m. Faint reddish tinges occur throughout but strong red jaspelite is not as prominent as in other sections.						
77								
		Pyrite is strongly disseminated from 78.0 - 82.5 m and weakly disseminated throughout. Quartz veins are 20°- 40° to c/a.						
78			78.0	81.0	100			
		Andesite Tuff can be more easily identified in the following box due to the alteration. However, some fragments can be seen at 76.9, 80.0 m.						
79								
80								
81	cp		81.0	84.0	80			
82								
		Box 12 82.9 - 90.8 m						
83		ANDESITE TUFF						
		Light grey green with occasional quartz veins and heavy disseminated pyrite. Pyrite varies from fine-grained <1mm to 2mm cube and from trace to 5% (over 1 metre interval) Several 0.5 cm pyrite seams (88.4 m).						
84			84.0	87.0	100			
85								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 11

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
86								
87			87.0	90.0	100			
88								
py seam								
89								
py seam 90		Box 13 90.8 - 97.4 m ANDESITE TUFF	90.0	93.0	117			
py seam								
91		Light grey green homogeneous rock.						
py seam		Possible crystal/fragments (91.0 - 92.0 m) are						
		black, 2mm in size. Similar white crystal/fragments						
		96.4 - 97.4 m.						
92								
		Pyrite occurs as thin massive seams, thin cubed seams,						
		and disseminated.						
93			93.0	96.0	100			
py seam								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 12

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
94								
py-hem altn								
95								
96			96.0	99.0	100			
97		Box 14 97.4 - 104.7 m						
		D.C.L.T. + GARIBALDI DYKE						
98		Grey green with faint crystals 97.4 - 97.9 m.						
		Disseminated pyrite 97.4 - 101.0 m; Several						
		qtz. veins @40°; Some irregular veins 99.3 m.						
		Broken ground 101 - 103.8 m.						
99		Garibaldi Dyke 103.8 m is black with white calcite	99.0	102.0	103			
		vugs < 2 mm.						
100								
jaspelite-py								
101								
gouge								
broken core								
102			102.0	105.0	90			

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 13

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
103								
104		Box 15 104.7 - 111.8 m						
		D.C.L.T. + GARIBALDI DYKE						
105		Garibaldi dyke as above to 105.5 m.						
		Lower contact 20° to core axis.	105.0	108.0	113			
		Small fractures throughout DCLT. Minor qtz. veins.						
		Crystals more visible than in last box.						
106		111.5 - 111.7 m Some jaspelite alteration and a						
		weak foliation @ 40°.						
pyrite seams 107								
108			108.0	111.0	93			
109								
110								
111			111.0	114.0	117.0			

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 14

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 16 111.8 - 118.6 m						
		D.C.L.T. + RHYOLITE (GARIBALDI DYKE)						
112								
		Dark green - black with vague feldspar crystals						
		prominant from 113 - 118.6 m.						
		Slight sericite fracturing + hematite 111.8 - 113.0 m.						
113								
		Rhyolite 116.3 - 117.0 m; dark brown with a few						
		qtz. amygdules. Alteration rim on contact edges and						
		along veins.						
114								
			114.0	117.0	105			
115								
116								
117								
			117.0	120.0	107			
	Py							
118		Box 17 118.6 - 125.4 m						
		D.C.L.T. + ANDESITE TUFF						
119		118.6 - 121.7 m D.C.L.T. same general description						
		as above. Qtz., pyrite and sericite fractures occur						
		locally.						
120			120.0	123.0	100			

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 15

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Andesite Tuff 121.7 - 125.4 m						
		Light green, fine-grained, a few cross cutting qtz, pyrite, qtz-pyrite and jaspelite veins.						
		Fragments are rare (123.3 m).						
121	DCLT							
122	A.T							
123			123.0	126.0	103			
124								
pyrite 125		Box 18 125.2 - 132.3 m ANDESITE TUFF						
	PY	Same general description as above. Disseminated pyrite decreases through interval.						
jaspelite 126		130.8 m - intense silicification and quartz veining (20-30%).	126.0	129.0	103			
jaspelite		131.4 m - Numerous chloritic shears (< 1 mm wide).						
127								
jaspelite								
128								
jaspelite	CP							

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 16

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
129			129.0	132.0	100							
130												
131			131.0	132.0			61124	237	78	2190	1.3	190
intense silicification												
132		Box 19 132.3 - 139.2 m	132.0	135.0	103		61125	13	8	102	0.2	ND
		DACITE CRYSTAL LITHIC TUFF										
133		Intense light green silicification (137.4m) 135.5 - 137.4 m greenish tinge is stronger.										
		Trace pyrite.										
134		D.C.L.T. - dark green, finely crystalline matrix with local distinct plagioclase crystals (138.8 m).										
		Minor qtz. veining and disseminated pyrite.										
135			135.0	138.0	103							
			135.0	137.0			61126	5	12	143	0.2	ND
136												
137												

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 17

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
138			138.0	141.0	103			
139		Box 20 139.2 - 146.1						
		D.C.L.T. and AUGITE CRYSTAL TUFF						
140		Complex box with zones of silicification, augite crystals, feldspar crystals and red-purple alteration.						
		Possible interfingering of different tuff beds. However, silicification, shearing and faulting have						
141		rendered contacts indistinct.	141.0	144.0	103			
red-purple alteration								
- fault gouge 142								
trc. cp								
143								
144			144.0	147.0	100			
fault gouge								
145								
silicification								
hem-py								
146								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 18

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 21 146.1 - 154.0 m						
		DACITE CRYSTAL LITHIC TUFF						
147								
		As above; complex dacite tuff with pervasive	147.0	150.0	97			
		reddish-green alteration.						
148								
		Pale green silicification crosscut by qtz. veins.						
149		Upper contact of silicified zone contains feldspar						
		crystals for 10 - 20 cm, indicating original texture						
		and composition 149.4 - 149.7 m.						
fault gouge								
		Contacts are vague.						
silicification 150		Unit is heavily fractured and strongly veined.	150.0	153.0	80			
151								
152								
fault gouge								
153			153.0	156.0	107			
154		Box 22 154.0 - 161.0 m						
silicification		ANDESITIC ASH TUFF, LAPILLI TUFF AND GARIBALDI DYKE						
		Andesitic ash tuff is generally greenish grey and						
155								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 19

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		finely crystalline with sparse augite and plagioclase						
3cm gouged lapilli		crystals. Local darker grey tuffaceous breccia fragments						
		to 2 cm occur throughout (i.e. 158.0m).						
156		158.6 - 4 cm polylithic lapilli tuff bed with a						
156.0 30cm qtz-py		sharp upper contact (65° to c/a).	156.0	159.0	100			
alteration		Lapilli tuff fragments consist of 1) Dark grey						
		fine-grained angular fragments 2) Chalky white						
qtz-hem-chl- 157		subangular fragments to 1 cm. and 3) Subrounded						
py alteration		cherty grey green fragments within a greyish 'gritty'						
fault gouge		matrix.						
		Alteration zones consist of pervasive cherty grey						
		green silicification (chalcedony) (154.0 - 154.3 m)						
158		and as qtz/hem/chlorite/py alteration (156.7 -						
qtz-chl-hem-py		157.3 m and 158.0 - 158.7 m). The interval 156.7 -						
		157.3 m contains local fragments (1-3 cm.)						
159		characterized by a mossaic texture of a dark mafic						
		mineral and bluish quartz.	159.0	162.0	100			
		158.7 m - sharp contact (60° to c/a) with underlying						
		unaltered, finely crystalline, light grey, rhyolitic						
160		Garibaldi Dyke. The dyke shows vague irregular						
		banding and local scattered grey subangular						
local banding		fragments to 4 mm.						
and inclusions								
161		Box 23 161.0 - 168.0 m						
		RHYOLITIC GARIBALDI DYKE AND ANDESITIC TUFF						
		Rhyolite Dyke is the same as in Box 22.						
162		167.0 m - Lower contact of rhyolite is marked by a						
		5 cm fault zone consisting of highly fractured	162.0	165.0	113			
		rock and a 2 mm clay gouge zone terminating a						
		1 cm white qtz veinlet. Above the fault contact						
163		the rhyolite is heavily banded with <5% of dark grey						
		fragments to 3 mm. Below the contact the andesite						
		is moderately sheared and altered to a greenish grey						
		mixture of qtz/chl/se. A well developed liniation is						

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 20

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
164		defined by wavy, subparallel, yellowish, hairline						
		stringers and by the subparallel elongation of						
		relatively unaltered, grey 'remnant' tuff fragments.						
165			165.0	168.0	100			
166								
fault contact 85° to c.a. 167								
qtz-hem-py altera. 168		Box 24 168.0 - 174.5 m						
		ANDESITIC ASH TUFF AND ANDESITIC AUGITE CRYSTAL TUFF	168.0	171.0	110			
		Variably altered andesitic tuff is in fault contact						
10cm broken core 169		at 171.0 m with underlying andesitic augite crystal						
		tuff. The crystal tuff is characterized by 10-30%						
169.5m - 5cm lapilli		chloritized augite crystals (locally euhedral) to						
tuff bed (50° to c.a.)		3 mm within a pale greenish grey chloritic matrix.						
170		Local white quartz veinlets and quartz vein 'breccia'						
	AAT	cut c/a at 45°.						
		169.5 m - 10 cm. interbed of lapilli tuff with a						
fault gouge (45° to c.a.) 171		gradational lower contact (see box 22 for description).	171.0	174.0	103			
qtz. stringers	PY							
172	ACT							

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 21

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
173								
174		Box 25 174.5 - 181.8 m	174.0	177.0	107			
		ANDESITIC AUGITE CRYSTAL TUFF AND ASH TUFF;						
		DACITIC CRYSTAL LITHIC TUFF						
175		Interbedded andesitic ash and crystal tuff grades						
	AAT	over about 3.0 m (176.0 - 179.0 m) to a dacitic crystal lithic tuff. The DCLT is characterized						
176		by yellowish brown altered 'vague' plagioclase						
		crystals (30%) to 4 mm within a greyish green fine-grained matrix. The feldspar alteration						
	DCLT	might be a pervasive zeolitic alteration. Sparse						
177		dark grey angular tuffaceous fragments to 0.5 cm						
		occur throughout.	177.0	180.0	100			
	ACT							
178								
179								
180	DCLT		180.0	183.0	100			
181								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 22

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 26 181.8 - 188.9 m						
		DACITE CRYSTAL LITHIC TUFF						
182								
		DCLT is relatively unaltered and homogeneous with						
		sparse pyrite blebs and disseminations and local						
		quartz stringers (45 - 50° to c/a).						
183								
			183.0	186.0	100			
184								
2cm py. seam								
185								
	DCLT							
186								
			186.0	189.0	100			
187								
188		Box 27 188.9 - 196.0 m						
		DACITIC CRYSTAL LITHIC TUFF AND ANDESITIC CRYSTAL						
		TUFF; BRECCIA TUFF						
189		The DCLT unit is interbedded with andesitic augite						
		crystal tuff. The upper contact at 192.8m is	189.0	192.0	100			
		gradational over a short interval of about 3 cm.						
		The lower contact at 194.4 m is sharp and irregular.						
190								

TEXASGULF INC. DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 23

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Within the andesitic crystal tuff a 25 cm bed of						
		breccia tuff is observed with sharp upper and lower						
		contacts (45° to c/a). This polymictic breccia is						
191		characterized by fragments of three lithologies						
Sem qtz-py vein		within a greenish grey augite crystal tuff matrix.						
		(60%). All fragments are subrounded to subangular						
		1) White to grey brown cherty fragments to 5 cm(20%)						
192		2) Augite crystal tuff fragments to 3 cm(10%) and						
	DCLT	3) DCLT fragments to 4 cm (10%).	192.0	195.0	100			
193								
tuff breccia								
	ACT							
194								
'crackle breccia'								
195			195.0	198.0	100			
		Box 28 196.0 - 203.4 m						
196		DACITIC CRYSTAL LITHIC TUFF AND ANDESITIC AUGITE						
	DCLT	CRYSTAL TUFF						
197		DCLT is relatively unaltered with minor quartz						
		veinlets. An interbed of andesitic augite crystal						
		tuff occurs from 201.0 - 202.8 m. The contacts are						
		gradational over a short interval (1-3cm).						
198			198.0	201.0	100			
5mm py. band								
(45° to c.a.)								

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 24

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
199												
200												
201			201.0	204.0	93							
202	ACT											
203		Box 29 203.4 - 210.9 m DACITIC CRYSTAL LITHIC TUFF AND ANDESITIC AUGITE CRYSTAL TUFF										
204	DCLT	The DCLT grades into an intensely altered interval from 204.8 - 208.3 m. This interval is characterized by pervasive quartz-hematite-pyrite alteration with local zones of relic plagioclase	204.0	207.0	100							
205		crystals and augite crystal tuff (i.e.207.0 - 207.5m). The alteration zone is deep fleshy pink with fine disseminated pyrite to 20%.	205.0	208.0			61127	33	163	31	0.2	20
Reddish qtz-hem-py alteration 206 206.1m 2mm qtz-<p-gn stringer		208.3 - 210.3 m Andesitic crystal tuff with patchy reddish qtz-hem-py alteration.										
207		210.6 m Sharp contact (80° to c/a) between a.c.tuff and underlying DCLT.	207.0	210.0	97							

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-2-81 | PAGE NO. 25

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
207.6m 2cm fleshy		Local white quartz and quartz-pyrite veinlets cut										
pink qtz- 208		core axis from 40 - 60°.	208.0	210.0			61128	7	11	62	0.2	15
hem vein												
209												
210		Box 30 210.9 - 214.9 m	210.0	213.0	100							
		DACITIC CRYSTAL LITHIC TUFF										
211		Relatively unaltered DCLT grades into a pale greenish grey chlorite-sericite alteration zone.										
212		The alteration is selective with respect to the matrix of the DCLT. Scattered, unaltered, angular 'fragments' of the DCLT occur throughout the alteration. The continuity of textures between the altered DCLT and the fragments indicate that the fragments are an alteration phenomena rather than a true 'breccia'.										
213			213.0	216.9	100							
214												
214.9 END OF HOLE												
215												

Ramon Fuentes

George Cooper

10223

PART 2 of 2

TEXASGULF INC.

DRILL HOLE LOG

HOLE NO.	PAGE NO.
BM-3-81	1

PROPERTY: BALDWIN-McVICAR

LOCATION: Mt. Baldwin area-Baldwin-McVicar group

Lat: 49°40' Long: 123°03'

AZIM: 056° ELEV: 1300 m

DIP: -71° LENGTH: 181m

CORE SIZE: BQ

STARTED: Oct. 21, 1981

COMPLETED: Oct. 26, 1981

PURPOSE: To test IP anomaly and surface showings at depth

CORE RECOVERY:

DIP TEST

METRES	AZIMUTH	DIP	FOOTAGE	READING	CORRECT
15.2 m	057°	69°			
179.8 m	060°	43.5°			

CLAIM NO: WHISTLER

SECTION: C-C'

LOGGED BY: D. PIROSHCO & G. COOPER

DATE LOGGED: Oct.22/81 - Oct.27/81

DRILLING CO: Longyear Canada Ltd.

ASSAYED BY: Bondar-Clegg

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH. GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
1								
overburden to 2.7m								
2								
2.7-3.0 Grey qtz-py alter'n		Box 1 2.7 - 10.0 m	2.7	3.0	100			
3		DACITIC CRYSTAL LITHIC TUFF	3.0	3.3	100			
4		DCLT consists of 20-30% pale white plagioclase crystals to 3mm in size (which may be lathe like) within a fine-grained greyish green chloritic matrix. Sparse angular dark grey lithic fragments occur locally (i.e. 7.2 m). Fine disseminated pyrite to 1% occurs throughout.						
5		The interval 5.1 - 10.0m generally shows patchy pervasive light greyish green chlorite-sericite alteration. Zones of unaltered DCLT give a fragmental appearance to the core because of the sharp gradation from altered to unaltered rock.						
6			6.0	6.3	100			

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PART 2 of 2

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-3-81 | PAGE NO. 2

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
3cm fault gouge								
7								
qtz. stringers								
8								
3cm pyrite bleb								
9			9.0	12.0	100			
10	DCLT	Box 2 10.0 - 16.7 m DACITIC CRYSTAL LITHIC TUFF AND ANDESITIC ASH AND CRYSTAL TUFF						
minor silicification								
11		Variably altered DCLT grades over 5 cm at 14.0 m						
11.1→11.4m - clay gouge		into andesitic ash and crystal tuff. The andesite is characterized by a fine-grained greyish green 'chloritic' tuff matrix with scattered dark grey						
12		tuffaceous fragments to 4 mm and chloritized						
3mm fault gouge (25° to c.a)		subhedral augite crystals to 3 mm.	12.0	15.0	100			
13		Alteration is generally confined to the DCLT. Alteration occurs as local chlorite-sericite alteration as in box 1 and as minor silicification.						
		Intense chlorite-sericite shearing at 40° to the c/a is noted in a 50 cm interval from 10.3 - 10.8 m.						
1cm fault gouge 14		White quartz, qtz-pyrite veining is minor and is oriented from 35-40° to c/a.						
15	AGT		15.0	18.0	100			

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-3-81 | PAGE NO. 3

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
16								
	ACT	Box 3 16.7 - 23.6 m						
17		ANDESITIC ASH AND CRYSTAL TUFF AND DACITIC CRYSTAL LITHIC TUFF						
		Description same as in previous boxes						
17.9m - 3cm qtz-py-hem vein (50° to the c.a)		18.3 - 18.6 m - DCLT interbed						
18		The DCLT shows patchy qtz-chl-se alteration and patches and veins of white qtz-hem. Minor disseminated	18.0	21.0	100			
	DCLT	pyrite and pyrite stringers occur locally.						
19		The Dacite locally shows intermixed andesitic						
Qtz-hem alter'n		components i.e. augite crystals.						
		White quartz veinlets to 1 cm are oriented 40°-60°						
		to c/a.						
20								
	ACT							
10cm white qtz. vein								
21								
			21.0	24.0	100			
	DCLT							
22								
	DCLT							
	PY							
22.9m 10cm qtz-hm-py alter'n 23		Box 4 23.6 - 30.8 m						
		DACITE CRYSTAL LITHIC TUFF AND ANDESITIC ASH TUFF AND						
		CRYSTAL TUFF						

TEXASGULF INC. — DRILL HOLE LOG

HOLE NO. BM-3-81 | PAGE NO. 4

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
24.1 3cm py blob		Interbedded andesite and dacite tuffs generally show gradational contacts suggesting they originated from two sources.	24.0	27.0	100			
24.5 3cm qtz-hem-py vein (50° to c.a)	DCLT	23.6 - 24.7 m dacite crystal lithic tuff						
25		24.7 - 26.8 m andesitic tuff						
		26.8 - 29.1 m D.C.L.T.						
		29.1 - 30.0 m andesitic tuff						
		30.0 - 30.8 m D.C.L.T.						
26		Qtz, Qtz-Hem and Qtz-Hem-Py veins to 2 cm are generally oriented at 50° to c/a.						
	AT							
27			27.0	30.0	100			
27.6m 1cm fault gouge (30° to the c.a)								
28	DCLT							
29								
	AT							
30		Box 5 30.8 - 37.9 m	30.0	33.0	100			
		DACITE CRYSTAL LITHIC TUFF						
30.8m - 30cm qtz-hem-py alter'n		DCLT shows local patchy greyish quartz-sericite alteration with relic unaltered DCLT 'fragments'.						
31		The DCLT also contains zones of augite crystals resulting in a slightly more andesitic composition.						
31.7m - cp stringer	DCLT							
		Greyish qtz and qtz-py veins to 5 cm are oriented 30° to c/a.						
32								
5cm qtz-py vein								

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
			33.0	36.0	100			
33								
34								
35								
			36.0	39.0	100			
36								
37								
		Box 6 37.9 - 44.6 m						
38		DACITIC CRYSTAL LITHIC TUFF AND GARIBALDI DYKES						
		DCLT has the same texture and alteration as in previous box.						
39		Basaltic Graibaldi dykes are dark grey, finely crystalline, and are mildly magnetic. Sparse calcite amygdules to 2 mm occur throughout. Contacts are sharp at 50° to CA.	39.0	42.0	100			
40		38.8m - 5 cm Quartz-chalcoprytie-pyrite zone with 10% cpy and 5% py.						
41								

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
42			42.0	45.0	100			
	PY							
43								
44								
		Box 7 44.6 - 51.8m						
45		DACITIC CRYSTAL LITHIC TUFF AND GARIBALDI DYKE	45.0	48.0	100			
		DCLT has same description as in previous boxes, alteration is dominated by patchy pervasive 'cherty' grey silicification (chalcedony) with zones of unaltered						
46		DCLT. These unaltered zones are in sharp contact with the intensely silicified zones and therefore give a coarse brecciated appearance to the core.						
47		Unaltered basaltic Garabaldi dyke has the same description as in Box 6.						
48			48.0	51.0	100			
49								
50								

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
51			51.0	54.0	100							
2cm white qtz. vein (70° to the c.a)		Box 8 51.8 - 58.5 m										
52		DACITIC CRYSTAL LITHIC TUFF										
53		DCLT has same description as in previous boxes with continued patchy 'cherty' grey silicification (chalcedony). Zones of disseminated pyrite cubes increase at about 57.0 m.										
54			54.0	57.0	100							
54.3m 3cm of disseminated pyrite (10%) 55												
56												
57			57.0	60.0	100							
57.1m 5cm qtz-py-cp zone	py		57.0	58.0			61129	1055	20	144	2.6	35
58	py											
58.4m - 2mm py stringer (45° to c.a.)		Box 9 58.5 - 65.8 m DACITIC CRYSTAL LITHIC TUFF										

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
59												
		DCLT shows patchy cherty grey silicification as well										
		as local white qtz-hem-py veinlets and patches.										
59.9m 10cm qtz-		65.5 m - 1 cm white quartz vein crosscutting dark										
py-cp alter'n 60		greyish quartz with associated disseminated pyrite	60.0	63.0	103							
		cubes to 20% and patchy red hematite.										
		Pyrite is minor throughout.										
61												
62												
63			63.0	66.0	100							
64												
65												
qtz-hem-py alter'n			65.5	67.0			61130	525	396	9390	3.8	40
		Box 10 65.8 - 72.7 m										
66		DACITIC CRYSTAL LITHIC TUFF & GARIBALDI DYKE	66.0	69.0	100							
		Patchy cherty grey type silicification decreases										
		through first metre of box. Alteration and veining is										
67		now dominated by quartz-pyrite and quartz-pyrite-	67.0	68.5			61131	97	180	16120	1.3	75
		sphalerite veins and silicified zones. The quartz veins										
67.3 1cm qtz. vein		(52 cm width) are white and generally have an orientation										

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
with sil. zone and associated py and sp		subparallel to the core axis. Moderate to intense										
68		pervasive silicification is associated with the										
68.1 1mm qtz-py-sp stringer		quartz veining and is characterized by greyish to										
		white quartz. Disseminated pyrite cubes are minor										
		but may be present in amounts up to 5% within short										
69		intervals (ie 67.2 m). Medium crystalline honey	69.0	72.0	100							
		sphalerite occurs as irregular shaped blebs and										
		stringers within quartz veins and associated silicified	69.5	71.5			61132	41	43	695	0.8	65
		zones.										
70		68.3 - 1 mm QTZ-SP-CPY stringer (30° to CA)										
		Garibaldi dyke - 71.7 - 72.7 - Basaltic dyke is dark										
		grey, finely crystalline, and weakly magnetic with										
		sparse calcite amygdules to 2 mm. The upper contact										
		(60° to CA) shows a well developed 20 cm wide light										
71		greenish grey chloritic alteration margin (chilled										
		margin).										
72			72.0	75.0	90							
		Box 11 72-79.9 m										
		DACITIC CRYSTAL LITHIC TUFF & GARIBALDI DYKE										
73												
		Garibaldi dyke described in previous box continues to	73.5	75.0			61133	61	44	525	0.8	110
		73.6 m. The lower contact (25° to CA) is sharp and										
74		irregular with a 2 cm chilled margin. DCLT shows										
		patchy grey to white silicification and stockwork										
		quartz veining in which two stages of veining are										
		noted; cherty grey quartz (chalcedony) veins										
75		(25°-30° to CA) crosscut by later barren white	75.0	78.0	100							
		quartz veins (70°-80° to CA)										
		Pyrite is minor throughout.										
76												

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y	EST. GRADE	SAM. NO.	ASSAYS
77								
78			78.0	81.0	100			
79								
80		Box 12 79.9 - 87.1 m DACITE CRYSTAL LITHIC TUFF						
diss py chalcedony veins 95%			81.0	84.0	100			
81		Dark greenish-black matrix with approx. 25% sub-angular feldspar crystals, cross cut by chalcedonic quartz veins, blue green in colour. Sparse white qtz veins post date blue-green veins.						
crackle breccia		Dacite matrix is slightly chloritized @ 83.2 and 84.6 - 84.8.						
2cm blob of py 82		Feldspar crystals "fuzzy" but distinct throughout box.						
trc. cp		Blue green veining appears as a crackle breccia. ie. irregular veining with zones of large "fragments" where solutions have in-filled pockets.						
83		Traces of diss. py, sp and cpy.						
84			84.0	87.0	100			
85								

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
86								
diss py-sp								
qtz-se								
87			87.0	90.0	100			
		Box 13 87.1 - 94.0 m						
88		DACITIC CRYSTAL LITHIC TUFF (DCLT)						
intense silicification		DCLT same general description as before.						
		87.3 - 87.7 m; gradual increase in blue-grey						
89		silicification. Blue-grey 87.7 - 89.5 m; whitish						
		green 89.5 - 90.5 m; blue grey 90.5 - 94.						
		Sparsely disseminated pyrite; lesser sphalerite.						
90			90.0	93.0	100			
91								
trc py-cp								
92								
93			93.0	96.0	103			

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HOLE NO. BM-3-81 | PAGE NO. 12

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
94		Box 14 94.0 - 100.7 m										
white bull qtz. veins		DACITE CRYSTAL LITHIC TUFF										
with inclusions of												
chloritized dacite		Same description as previous box. Alteration is										
95		characterized by greyish silicification, local zones										
		of intense chlorite alteration, and several bull quartz										
		veins. Silicified zones show an increase in										
		shearing (30° to CA) ie 94.4 m, 99.0 m.										
			96.0	99.0	100							
96			96.0	97.5			61134	9	6	126	0.2	5
intense silicification												
and local sericite												
97												
			97.5	99.0			61135	4	6	230	0.2	ND
98												
99		Broken core 99.0 - 100.7 m	99.0	102.0	100							
intense shearing		99.7 - 100.7 - small stringers of py and traces of sp.										
100		Box 15 100.7 - 107.3 m										
		DACITE CRYSTAL LITHIC TUFF										
		Grey silicified zone has same general description as										
		above. White qtz stringers are more pronounced.										
101												
102			102.0	105.0	100							

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		104.2 - 105.2 m Transition zone back to DCLT; light grey, fine-grained with inclusions of unaltered DCLT						
103								
		DCLT - as described in previous box but with small buff cyrstals (possibly altered feldspars).						
104		Blue green chalcedony qtz veins have alteration rinds and one is cross cut by white qtz veins.						
			105.0	108.0	100			
105								
106								
		Box 16 107.3 - 114.3 m						
107		DACITE CRYSTAL LITHIC TUFF						
		DCLT with small veinlets as in above box through to 108.2 m. Dacite continues to 112 m. Crackle veining is very intense from 110.2 - 111.0 m.	108.0	111.0	100			
108		112.0 - 112.2 white qtz & chloritization.						
109		112.0 m no feldspar visible. Jaspelite is generally finer grained and darker. Also with jaspelite there is a corresponding increase in pyrite.						
		Moderate shearing and strong chloritization overprints primary textures.						
110								
Blue-grey chalcedony								
111			111.0	114.0	90			

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HOLE NO. BM-3-81 | PAGE NO. 14

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
112								
113	py							
114		Box 17 114.3 - 121.4 m DACITIC CRYSTAL LITHIC TUFF	114.0	117.0	100			
115		Black, fine-grained dacite. Feldspar crystals only rarely visible due to alt. Jaspelite and pyrite occur together throughout.						
116								
fault gouge 117	py		117.0	120.0	100			
118 jaspelite - 25%								
119								
120			120.0	123.0	100			

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
10cm broken core												
121												
		Box 18 121.4 - 127.6 m										
		DACITE TUFF & ANDESITE ASH TUFF										
trc py 122		Black dacite; aphanitic matrix with faint feldspar crystals and minor fragments (andesite?).										
		122.2 - 122.6 m; intermixed layers of black and red dacite to andesite ash and crystal tuff; 122.6 -	122.6	123.6			61136	67	ND	114	0.2	ND
strong hem. 123		125.5 m predominantly red matrix with augite? crystals visible.	123.0	126.0	100							
		126 m; green andesite with local augite crystals										
ch-se fractures 124												
weak hem. 125		Pyrite seams 1 cm wide occur throughout box but are not related to hematite alteration.										
126			126.0	129.0	113							
		Box 19 127.6 - 134.4 m										
127		ANDESITE ASH TUFF										
pyrite seams		Green andesite with blackish tinges. Hematite alteration and qtz veining also occur.										
128												

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TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
129		Hematite alteration is pervasive from 130.7 - 132.5 m	129.0	132.0	100							
		but appears blotchy with strong weak and unaltered										
		patches 133.7 - 134.1 m.										
130		133.5 - 133.7 - 10% diss. pyrite.										
			130.7	131.7			61137	71	7	430	0.2	ND
131												
132			132.0	135.0	100							
hematite alter'n												
133												
134	py	Box 20 134.4 - 141.1 m										
		ANDESITE ASH TUFF										
135		Light to dark green with weak to strong red hematite										
		alteration. 134.6 - 136 m; blotchy as described	135.0	138.0	107							
		above. 136.8 - 138 m is more pervasive.										
hem. alter'n		138 - 138.3 Light green chloritic alteration with										
		3-5 mm cubes of pyrite.										
136		138.3 - 139.3 m partial hematite alt.										
		139.3 - 141.1 dark green andesite with disseminated										
		pyrite cubes.										
137		Very little qtz veins.										
hem												
			137.4	138.8			61138	223	10	93	0.3	5

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HOLE NO. BM-3-81 | PAGE NO. 17

TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
hem.		Small dark crystals (augite?) visible. 138.0-138.3 m										
138		and 140.0 - 140.3 m.	138.0	141.0	103							
hem!												
139	PY											
140												
		Box 21 141.1 - 148.4										
141		ANDESITE ASH TUFF	141.0	144.0	100							
		Disseminated pyrite continues to 141.7 m and is more localized throughout the rest of the box. Hematite										
142		alt. occurs only from 147.4 - 148.0 m. The rest of the box is green with a few qtz veins (white) with pyrite. A few augite crystals visible 141 m.										
143												
			144.0	147.0	100							
144												
145												
146												

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TEXTURE, ALTER'N. MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS Cu	Pb	Zn	Ag	Au
147			147.0	150.0	100							
hem.												
148			148.0	150.0			61139	6	5	177	0.2	ND
		Box 22 148.4 - 155.5 m										
		ANDESITE ASH TUFF										
149		Blackish green to reddish green. Very fine-grained. Dark crystals 2 mm in length visible where lighter green colour prevails. Hematite strongest 149.4 - 149.6 but weakly pervasive throughout.										
150			150.0	153.0	100							
fault zone		Fault zone 149.9 - 150.7 m. Qtz vein perpendicular to core @ 150.45.										
		150.45 - 150.7 sheared and gouge zone										
		149.9 - 150.45 Fault breccia										
151												
152												
153			153.0	156.0	100							
154												
155												

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
		Box 23 155.5 - 162.4						
156		ANDESITE ASH TUFF	156.0	159.0	100			
epidote-py bleb	o							
		Same general description as above except that there are several blebs and a couple of pyrite-epidote veins 156.25 m and 161.5 m.						
157 epidote-pyrite	o							
158								
159			159.0	162.0	100			
160								
	py							
161								
	py							
py. vein with trc. gn.								
162			162.0	165.0	100			
	py	Box 24 162.4 - 169.9 m						
		ANDESITE ASH TUFF & BRECCIA TUFF						
163		Light green andesite with augite crystals visible 163.4 - 163.7 and 164.1						

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
164		Some larger fragments occur at 164.1, 164.7.						
diss. py		164.7 - 172 m Hematite-chlorite alt zone. Light pink deep red, light green with buff specks.						
165			165.0	168.0	100			
epidote-quartz vein - trc. sp-cp								
166								
167 hematite-chlorite alter'n	py							
168			168.0	171.0	100			
169	py							
170		Box 25 169.9 - 177.1 ANDESITE ASH TUFF						
171		Same general description. No hematite alt. but patchy chlorite alt. occurs. Epidote is lighter green than chlorite.	171.0	174.0	100			
172								

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TEXTURE, ALTER'N MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	METRES FROM	METRES TO	REC'Y %	EST. GRADE	SAM. NO.	ASSAYS
173								
174			174.0	177.0	100			
175								
176								
177		Box 26 - 177.1 - 181.0 m ANDESITE TUFF	177.0	180.0	100			
178		Same general description as usual. Dark green with some lighter patches. Qtz with traces of jaspelite - 177.6 m. Trace py 178.7 m. 178.2 - 178.7 m 179.9 - 180.1 m ~~Epidote blebs with diss py~~						
179								
180			180.0	181.0	100			
181.0 m end of hole 181		END OF HOLE						

Raum Pushu George Cooper

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PART
2 of 2